MMM	PMPM PMPM PMPM <th>GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG</th> <th></th> <th>\$</th> <th>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT</th>	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		\$	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
MMM MMM	MMM MMM	GGGGGGGG	iii	\$\$\$\$\$\$\$\$\$\$\$\$	iii

_\$2

MM	MM MM MMM MMM MMM MM MM MM MM MM MM MM	GGGGGGGG GGGGGGGG GG GG GG GG GG GG GG	XX	QQQQQQ QQ QQ QQ QQ	000000 00 00 00 00		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
		\$					

MM

20 4E 50 2A

20 4E 53 4C 20

MMGXQUOTA Table of contents	- TEST MMG SERVICES WITH LOW PGFLQUOTA	16-SEP-1984 02:05:45	VAX/VMS Macro V04-00	Page	0
(2) 52 (2) 56 (3) 370 (6) 582 (7) 685 (8) 708 (9) 724 (10) 917	DECLARATIONS MACROS DATA STORAGE AND MESSAGE STRINGS INITIALIZATION FORCE ERRORS IN CRETVA FORCE ERRORS FROM EXPREG SUBROUTINES TO CALL THE SERVICES MISCELLANEOUS SUBROUTINES				

MM VO

(1)

0000

222334567890

40

412444567890

MEMORY MANAGEMENT SERVICES TEST #7

.TITLE MMGXQUOTA - TEST MMG SERVICES WITH LOW PGFLQUOTA

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: FACILITY: USER MODE MEMORY MANAGEMENT SERVICES TEST

ABSTRACT: THIS SET OF ROUTINES TESTS THE MEMORY MANAGEMENT SERVICES

ENVIRONMENT: USER MODE DIAGNOSTIC

AUTHOR: PETER H. LIPMAN , CREATION DATE: 6-JAN-77

MODIFIED BY:

V02-012 SHZ0008 Stephen Zalewski 20-Aug-1980 Added further tests to system services tested in this program. Also incorporated program into MMG test package.

V02-012 TSC0007 Tom Clark 25-Jul-1980 Added further tests to system services tested in this program.

```
- TEST MMG SERVICES WITH LOW PGFLQUOTA 16-SEP-1984 02:05:45 VAX/VMS Macro V04-00 Page 2 DECLARATIONS 5-SEP-1984 01:58:27 [MMGTST.SRCJMMGXQUOTA.MAR;1 (2)
```

```
.SBTTL DECLARATIONS
          INCLUDE FILES:
                            .SBTTL MACROS
                  MACROS:
                            .MACRO
.LIST
.ENDM
                                      LIST
MEB
LIST
0000
0000
0000
0000
0000
                            .MACRO
.NLIST
.ENDM
                                       NLIST
MEB
NLIST
                            .MACRO
                                       READ SIZ=#1,ADR=(R2),?L1,?L2

<SIZ>,<ADR>,L1
                            BRB
ŎŎŎŎ
0000
0000
0000
                                       WAREADERR, R1
               L1:
                            BSBW
                                        PROBERR
                            . ENDM
                                        READ
0000
0000
                            MACRO
                                       WRITE SIZ=#1,ADR=(R2),?L1,?L2
<SIZ>,<ADR>,L1
IFNOWRT
                            BRB
                            MOVAL
                                       W"WRITERR,R1
                L1:
                            BSBW
                                        PROBERR
                L2:
                            .ENDM
                                       WRITE
                                       NOREAD SIZ=#1,ADR=(R2),?L1

<SIZ>,<ADR>,L1

W^NOREADERR,R1
                            .MACRO
                            MOVAL
                            BSBW
                                        PROBERR
                L1:
                            .ENDM
                                        NOREAD
                                       NOWRITE SIZ=#1,ADR=(R2),?L1
<SIZ>,<ADR>,L1
W^NOWRITERR,R1
                            MACRO
                            IFNOWRT
                            MOVAL
                            BSBW
                                        PROBERR
                L1:
                            .ENDM
                                       NOWRITE
                            .MACRO
                                        ADJWSL PAGENT, LIMIT=#0, WSETLM, STATUS=S^#SS$_NORMAL
                            LIST
                                                   STATUS, R3
PAGCNT, R4
LIMIT, R5
                                        MOVZWL
          101
102
103
104
105
106
107
                                        MOVL
                                        MOVL
                                                   B.WSETLM
DIF <LIMIT> <#0>
WANKSETLIM,R6
                                       . IF
MOVAL
                                       LIFF
                                                   R6
                                        .ENDC
```

```
MMGXQUOTA
V04-000
```

```
16-SEP-1984 02:05:45 VAX/VMS Macro V04-00 
5-SEP-1984 01:58:27 [MMGTST.SRC]MMGXQUOTA.MAR;1
MACROS
                                           MOVAL
ENDC
BSBW
                                                      WSETLM, R6
                                                      ADJWSLSUBR
                                NLIST
                                 . ENDM
                                           ADJWSL
                                           EXPREG PAGENT, REGION=#0, STATUS=S*#SS$_NORMAL, - RETADR=W*RETRANGE
                                .MACRO
                                LIST
                                                      STATUS, R3
PAGCNT, R4
RETADR, R1
                                           MOVZWL
                                           MOVL
                                           MOVAL
                                           .IF
CLRL
.IFF
                                                      IDN, <REGION>, <#0>
                                           MOVL
                                                      REGION, R5
                                           .ENDC
                                                      EXPREGSUBR
                                NLIST
                                           EXPREG
                                 . ENDM
                                           CNTREG PAGENT, REGION=#0, STATUS=S*#SS$_NORMAL, - RETADR=W*RETRANGE
                                 .MACRO
                                LIST
                                                      STATUS.R3
PAGCNT.R4
                                           MOVZWL
                                           MOVL
                                           MOVAL
                                                      RETADR, R1
                                           .IF
                                                      IDN, <REGION>, <#0>
                                            . IFF
                                           MOVL
                                                      REGION, R5
                                            .ENDC
                                           BSBW
                                                      CNTREGSUBR
                                NLIST
                                 .ENDM
                                           CNTREG
                                           LKWSET STARTVA, ENDVA, STATUS=S*#SS$_WASCLR,-
                                 . MACRO
                                                      INADR=W^INRANGE , RETADR=W^RETRANGE
                                LIST
                                           MOVL
                                                      NB, STARTVA
STARTVA, W^INRANGE
                                           .ENDC
                                           MOVL
                                                      NB, ENDVA
ENDVA, W^INRANGE+4
                                            .ENDC
                                           MOVZWL
                                                      STATUS, R3
INADR, RO
                                           MOVAL
                                           MOVAL
                                                      RETADR, R1
                                           BSBW
                                                      LKWSETSUBR
                                NLIST
                                 .ENDM
                                           LKWSET
                                           ULWSET STARTVA, ENDVA, STATUS=S*#SS$ WASSET, -
INADR=W*INRANGE, RETADR=W*RETRANGE
                                 . MACRO
                                LIST
                                           . IF
                                                      NB, STARTVA
```

- TEST MMG SERVICES WITH LOW PGFLQUOTA

```
- TEST MMG SERVICES WITH LOW PGFLQUOTA
                                                     16-SEP-1984 02:05:45
5-SEP-1984 01:58:27
                                                                                  VAX/VMS Macro V04-00
[MMGTST.SRC]MMGXQUOTA.MAR;1
                                                                                                                      Page
                                                                                                                              (2)
                                                    STARTVA, W^INRANGE
                                          MOVL
                                         .ENDC
.IF
MOVL
                NB, ENDVA
                                                    ENDVA, W'INRANGE+4
                                          .ENDC
                                                    STATUS, R3
INADR, RO
RETADR, R1
                                          MOVZWL
                                          MOVAL
       MOVAL
                                                    ULWSETSUBR
                                          BSBW
                                NLIST
                                . ENDM
                                          ULWSET
                                .MACRO
                                          CRETVA
                                                  STARTVA, ENDVA, STATUS=S*#SS$_NORMAL,-
                                                    INADR=W^INRANGE, RETADR=W^RETRANGE
                               LIST
                                                    NB, STARTVA
                                          MOVL
                                                    STARTVA, W'INRANGE
                                          .ENDC
                                                    NB, ENDVA
                                          MOVL
                                                    ENDVA, W^INRANGE+4
                                          .ENDC
                                                    STATUS, R3
INADR, RO
                                          MOVZWL
                                          MOVAL
                                          MOVAL
                                                    RETADR, R1
                                          BSBW
                                                    CRETVASUBR
                                NLIST
                                .ENDM
                                          CRETVA
                               THIS MACRO DELETES THE CURRENT VA ADDRESSES. ALSO HIDDEN IN THIS MACRO IS A TEST TO SEE IF A DELETE GLOBAL SECTION MUST ALSO BE INVOKED. THIS OCCURS DURING THE SECOND AND THIRD RUNS OF THE TEST
                                                                                              ALSO HIDDEN IN THIS
                                PROGRAM WHEN GLOBAL SECTION MAPPING AND PFN MAPPING ARE USED.
                DELTVA STARTVA, ENDVA, STATUS=SA#SS$_NORMAL,-
                                .MACRO
                                                    INADR=W^INRANGE_RETADR=W^RETRANGE_?L1
                               LIST
                                          CMPW
                                                    W^WHICHRUN, #RUN1
                                                                                   : IF USING MAPPED SECTIONS FOR TESTS,
                                          BLEQ
                                                                                    DELETE SECTION AND THEN DO A DELTVA
                                         $DGBLSC_S
GSDNAM=<W^GBLSECNAM>
                     L1:
                                                    NB, STARTVA
STARTVA, W^INRANGE
                                          MOVL
                                         .ENDC
.IF
MOVL
                                                    NB, ENDVA
                                                    ENDVA, W'INRANGE+4
                                          .ENDC
                                                    STATUS, R3
                                          MOVZWL
                                          MOVAL
                                                    INADR, RO
                                          MOVAL
                                                    RETADR, R1
                                          BSBW
                                                    DELTVASUBR
                               NLIST
                                          DELTVA
                                . ENDM
```

VO

```
16-SEP-1984 02:05:45 VAX/VMS Macro V04-00 
5-SEP-1984 01:58:27 [MMGTST.SRC]MMGXQUOTA.MAR;1
                                                                                                                                                                  (2)
MACROS
                    THIS MACRO USED TO CREATE PERMANENT GLOBAL SECTIONS. THE FILE NAME AND GBL SECTION DEVICE NAME ARE DECLARED INDEPENDANTLY OF THIS MACRO AND ARE PUSHED ONTO THE STACK MANUALY BEFORE THE SCRMPSC SERVICE IS
                                       ALSO NOTE THE TEMPORARY FIX LOCATED AT THE BOTTOM OF THE MACRO. THE FIX IS NEEDED BECAUSE THE LAST GLOBAL SECTION MAY NOT HAVE BEEN DELETED BY THE TIME THE NEXT MAPPED SECTION IS CREATED. IN THIS CASE THE RETURNED ERROR IS TRAPPED AND THE SECTION IS REMAPPED UNTIL THE SUCCESS CODE IS RETURNED. THIS BUG IS SLATED TO BE FIXED. WHEN THAT IS ACCOMPLISHED REFER TO THE COMMENTS ABOVE THE FIX TO DETERMINE WHAT LINES SHOULD BE REMOVED TO DELETE THE PATCH.
                                                    CREMAPSEC -
                                        .MACRO
                                                     STARTVA
                                                     ENDVA
                                                     STATUS
                                                     INADR=<W^INRANGE> . -
                                                                                                           : INPUT RANGE
                                                     RETADR=<W^RETRANGE>
                                                                                                           : RETURN RANGE
                                                     FLAGS=#0
                                                                                                           : SECTION FLAGS
                                                     GSDNAM=<W^GBLSECNAM> . -
                                                                                                           GLOBAL SECTION NAME
                                                                                                           RELATIVE PAGE
                                                     RELPAG=#0
FILNAM=<W^FILENAME>,-
                                                                                                           : FILE NAME
                                                                                                           :MAX SIZE OF SECTION :STARTING WIRT BLK NO. IN FILE
                                                     PAGCNT=#0
                                                                                ,-
        ŎŎŎŎ
                                                      VBN=#0
        0000
0000
0000
0000
0000
                                                     ?L1
                                       LIST
                                                      . IF
                                                                   NB, STARTVA
                                                     MOVL
                                                                   STARTVA, W'INRANGE
                                                     .ENDC
                                                     MOVL
                                                                   NB, ENDVA
        0000
                                                                  ENDVA, W'INRANGE+4
        0000
                                                      .ENDC
        ÖÖÖÖ
                                                     MOVZWL
                                                                  STATUS, R3
        0000
                          L1:
        0000
                                                     PUSHL
                                                                   VBN
        0000
0000
0000
                                                     PUSHL
                                                                  PAGCNT
                                                     SPUSHADR
                                                                                FILNAM
                                                     PUSHL
                                                                  RELPAG
                                                     SPUSHADR
                                                                                GSDNAM
                                                     PUSHL
                                                                 FLAGS
                                                     SPUSHADR
                                                                                RETADR
                                                     $PUSHADR
                                                                                INADR
                                                     CALLS #8,LIBS_CREMAPSEC
                           IN ORDER TO DELTE THE PATCH MENTIONED ABOVE SIMPLY REMOVE THE LINES FROM
                           :HERE TO THE NEXT SET OF ASTERICS.
                                                                   #^X1828A,R0
                                                                                                           : IF PREVIOUS GBL SECTION HASN'T
                                                     CMPL
                                                                                                           BEEN DELETED TRY CREMAPSEC AGAIN.
                                                     BEQL
                           :******
                                                     MOVAL
                                                                   W^CRMPSCERR,R1
                                                     BSBW
                                                                   CHECK1
                                        NLIST
                                                     CREMAPSEC
                                        . ENDM
```

- TEST MMG SERVICES WITH LOW PGFLQUOTA

```
THIS MACRO IS USED TO DETERMINE WHETHER THE MAKEVA SHOULD BE
                           TRANSLATED INTO A SCRETVA, A SCRMPSC USING GLOBLAL SECTIONS,
OR A SCRMPSC USING PFN MAPPING. THE DECISION IS BASED UPON WHICH
RUN THE PROGRAM IS CURRENTLY IN.
ALSO NOTE THAT THE FIX THAT WAS APPLIED TO SCRMPSC MACRO LOCATED
ABOVE, WAS ALSO APPLIED TO THE SCRMPSC CALL LOCATED IN THE THIRD
PART OF THIS MACRO. UPON THE FIX OF THIS BUG REFER TO THE
                           FIXED AREA TO FIND OUT WHAT MUST BE DELETED IN ORDER TO GET RID
                           OF THE TEMPORARY PATCH.
STARTVA, ENDVA, STAT=S^#SS$_NORMAL, ?L1, ?L2, ?L10, ?L20, -
?L30, ?L40
                           .MACRO MAKEVA
                           LIST
                                       CASEL W^WHICHRUN, #1, #RUNMAX
               L1:
                                                                                     : IF FIRST RUN USE CRETVA.
: IF SECOND USE GBL CREMAPSEC
                                       .WORD L10-L1
.WORD L20-L1
.WORD L30-L1
                                                                                      IF THIRD USE PFN MAPPING
               L10:
                                       CRETVA STARTVA, ENDVA, STATUS=STAT
                           LIST
                                       BRW L40
              L20:
          304
305
                           CREMAPSEC STARTVA, ENDVA, STATUS=STAT, -
FLAGS=#<SEC$M_GBL!SEC$M_PERM!SEC$M_DZRO!SEC$M_WRT>, -
PAGCNT=#25
          306
307
0000
0000
0000
          308
                           LIST
          309
                                       BRW L40
          310
311
               L30:
                                       MOVL
                                                  NB, STARTVA
0000
                                                  STARTVA, W'INRANGE
ŎŎŎŎ
                                       .ENDC
0000
                                       . IF
                                                  NB, ENDVA
                                                  ENDVA, W^INRANGE+4
                                       MOVL
          316
                                       .ENDC
                                       MOVZWL STAT, R3
         318
319
               L2:
                           SCRMPSC_S
                                       INADR=<W^INRANGE>,-
RETADR=<W^RETRANGE>,-
                                       GSDNAM=<W^GBLSECNAM>,-
                                       VBN=#0 .-
                                       FLAGS=#<SEC$M_GBL!SEC$M_PERM!SEC$M_PFNMAP!SEC$M_WRT>,-
                                       PAGCNT=#25
                 ****
                IN ORDER TO REMOVE THE TEMPORARY FIX EXPLAINED ABOVE REMOVE THE LINES
          328
329
330
                STARTING FROM HERE AND EXTENDING THE THE NEXT SET OF ASTERICS.
                                                                                      : IF PREVIOUS GBL SECTION HASN'T
                                       CMPL
                                                  #^X1828A,RO
                                                  LZ
                                                                                      BEEN DELETED TRY CREMAPSEC AGAIN.
                                       BEQL
                :****
                                       MOVAL
                                                  W^CRMPSCERR,R1
                                       BSBW
                                                  CHECK1
          335
336
               L40:
                           NLIST
```

```
- TEST MMG SERVICES WITH LOW PGFLQUOTA
                                                                        16-SEP-1984 02:05:45 VAX/VMS Macro V04-00 
5-SEP-1984 01:58:27 [MMGTST.SRC]MMGXQUOTA.MAR;1
                                                                                                                                                                 (2)
                                              .ENDM
                           78901234567890123456789012345678
333344444444445555555555566666668
                                                          MAKEVA
                                             .MACRO
                                                          RANGECHK ONOROFF
                                                           IDN <ONOROFF>, <OFF>
                                              . IF
                                                                       #CTL$M_RNGCHK, W^CTLFLG
                                                          BICL
                                              .IFF
                                                          BISL
                                                                       #CTL$M_RNGCHK, W^CTLFLG
                                              .ENDC
                                              .ENDM
                                                          RANGECHK
                                    EQUATED SYMBOLS:
                                              $SECDEF
$SSDEF
                                              SPRTDEF
                                              SGBLINI
                                                          CTL,0,<-

<MEMLOOP,,MASK>,-

<TSTLOOP,,MASK>,-

<PIDMSG,,MASK>,-
                                                                                                             DEFINE CONTROL BITS IN R3
                                              SVIELD
                                                                                                             REDO ENTIRE TEST FROM TOP PUT PROCESS ID IN EACH TYPEOUT
                0000
0000
0000
0000
0000
0000
0000
                                                          <RNGCHK, ,MASK>-
                                                                                                             ON IF CHECKING RETURN RANGE
00000010
00000002
00000001
00000003
                                             PRTSC_NONE=184
RUN2=2
RUN1=1
                                              RUNMAX=3
                                    OWN STORAGE:
```

VC

```
- TEST MMG SERVICES WITH LOW PGFLQUOTA DATA STORAGE AND MESSAGE STRINGS
                                                                     16-SEP-1984 02:05:45
5-SEP-1984 01:58:27
                                                                                               VAX/VMS Macro V04-00
                                                                                               EMMGTST. SRCJMMGXQUOTA. MAR; 1
                                                           DATA STORAGE AND MESSAGE STRINGS
                                                   .SBTTL
                        00000000
                                                  .PSECT
                                                           DATAO, PAGE, WRT, NOEXE
                                         INRANGE:
                 80000008
                                                   .BLKL
                                         RETRANGE:
                 00000010
00000006
00000018
                                                  .BLKL
                                         CTLFLG: .LONG
                                                           CTL$M_TSTLOOP!CTL$M_PIDMSG
                                         SAVEND: .BLKL
                                         HIGHPOADR:
                 0000001C
                                                                                                ; LAST BYTE ADDRESS IN PO SPACE
                                                   .BLKL
                                    PID:
                                                   BLKL
                                                                                                :PROCESS ID
                                         MAXPASSCNT:
                 00000003
                                                  . LONG
                                                                                                :NUMBER OF PASSES TO RUN
                                         PASSCNT:
                 00000028
                                                   BLKL
                                                                                                :PASS COUNTER
                                         MAXWHICHRUN:
                 00000003
                                                   .LONG
                                                                                                :NUMBER OF RUNS
                                         WHICHRUN:
                 00000030
                                                   BLKL
                                                                                                :WHICH RUN COUNTER
                                         WRKSETLIM:
                 00000034
                                                   BLKL
                                                                                                RETURNED NEW WORKING SET LIMIT
                                         WRKSETDEF:
                 0000004C
0000003C
                                                   BLKL
                                                                                                ; DEFAULT, MAX, MIN WORKING SET LIMIT
                                                  WRKSETMAX=WRKSETDEF+8
                 00000044
                                                  WRKSETMIN=WRKSETDEF+16
                                    395
396
397
398
399
                                         WRKSETMAXADD:
                 00000050
                                                   .BLKL
                                                                                                :WRKSETMAX-WRKSETDEF
                                         PREVPROT:
                                         FAB:
                                                  SFAB
                                                           FAC=PUT, FNA=OUTNAMADR, FNS=OUTNAMSIZ ; FAB FOR OUTPUT
                                         RAB:
                                                                                                RECORD ACCESS BLOCK FOR OUTPUT
                                                  SRAB
                                                           FAB=FAB
                 8300000E
                                     400
                                         MSGLEN: .BLKL
                                                                                                RETURN LENGTH FROM FAC
      00000106'000000A0'
                                     401
                                         MSGBUFD: LONG
                                                           MSGBUFSIZ, MSGBUF
                                                                                                :MESSAGE BUFFER DESCRIPTOR
                                    402
                                         PIDMSGD:
      00000102 00000004
                                    403
                                                  .LONG
                                                           MSGBUF-PIDMSG.PIDMSG
                                    404
                                    405
                                           ***** DO NOT SEPARATE OR REORDER THE FOLLOWING LINES
                            00F8
                                     406
                                     407
                            00f 8
                                         MSGBUFID:
                       0D
50
20
                                                           ^015, ^012
                                    408
                                         CRLF:
                                                  BYTE
                4F 52 50
20 20 20
000001A6
                                                           SPROCESS $
                            OOF A
20 53 53 45
             43 4F
                                     409
                                                   .ASCII
              20
                                         PIDMSG: .ASCII
                            0106
                                         MSGBUF: .BLKB
                                    411
                                                           160
                                                                                                :MESSAGE BUFFER USED BY FAO
                 000000A0
                            01A6
                                                  MSGBUFSIZ=.-MSGBUF
                            01A6
                                    414
                                           **** DO NOT SEPARATE OR REORDER THE PRECEEDING LINES
```

01A6 01A6

416

VC

MMG)	-00	0TA								- TE	ST MMG	SERV	ICES WITH LOW PO	G 14 GFLQUOTA GS	16-SEP- 5-SEP-	-1984 -1984	02:05: 01:58:	45 VAX 27 EMM	/VMS Ma GTST.SR	cro VO4-	00 DTA.MA	R;1	ige 9
										000	00000	418 419	.PSECT	CODE, PAG	E, NOWRT	,EXE							
		54	55	50	54	55	4F	24	53 59	53 000A	0000 0000 000A	420 421 422	OUTNAMADR: .ASCII OUTNAM	/SYS\$OUT	PUT/ AMADR								
52 5 58 4 41 5 40 5	21	45 20 20 4F	20 30 53 48	41 20 55	56 43 54	54 50 41 20	45 20 54	52 20 53 58	43 2F 20 52 20 20 21 20	21 4F 4C	000A 000A 000A 0016 0022	423 424 425	CRETVAERRADR:	\$!/CRETV	A ERROR	- PC	= !XL,	STATUS	WAS !X	L, SHOULI	D BE !	XL\$	
		3D 20 58		40	58 458 30 2F	21 21 20	20 420 52	4904	42 20 09 2F 20 40 41 54	21 58 45	0042 004E 005A	426	.ASCII	\$!/	INADR =	!XL -	·!XL,	RETADR	= !XL	- !XL!/\$			
					2F	21	40	58	21 20) 2D)063	0066 006D	427	CRETVA	ERRSIZ=C	RETVAER	RADR							
52 5 58 3 41 5	52	45 20 20 4F	20 30 53 48	41 20 55	56 43 54	54 50 41	4C 20 54	45 20 53	44 2F 20 52 20 20	21 4F 4C	0066 006D 006D 006D 006D 0079	427 428 429 430	DELTVAERRADR: .ASCII	\$!/DELTV	A ERROR	- PC	= !XL,	STATUS	WAS !X	L. SHOUL	D BE !	XL\$	
40 5			48 20 20 21	55 53 40 52 40 20	20 58 45 50 2F	20 21 21 21 20 21	40 4E 20 52	58 45 49 20 44	21 20 42 20 09 2F 20 40 41 54	53 21 58 45	009D 00A5 00B1	431	.ASCII	\$!/	INADR =	!XL -	·!XL,	RETADR	= !XL	- !XL!/\$			
					2F	21	40	58	21 20	2D 063	0000	432	DELTVA	ERRSIZ=D	ELTVAER	RADR							
52 5 58 2 41 5	2 4	45	20 30 53	43 20 55	53 43 54	50 50 41	4D 20 54	52 20 53	43 2F 20 52 20 20	21 4F 4C	0009 0000 0000 0000 0000 0000	433 434 435	CRMPSCERRADR: .ASCII	\$!/CRMPS	C ERROR	- PC	= !XL,	STATUS	WAS !X	L, SHOULI	D BE !	XL\$	
21 2 52 2 20 4)) (46			20 58 44 58 30 2f	20 21 21 20 21	40 4E 20 52	58 49 20 44	21 20 42 20 09 2F 20 40 41 54	53 44 21 58 45	00F4 0100 0108 0114 0120	436	.ASCII	\$!/	INADR =	!XL -	·!XL.	RETADR	= !XL	- !XL!/\$			
					2F	21	40	58	21 20	2D 063	012¢ 0133	437	CRMPSCI	ERRSIZ=C	RMPSCERF	RADR							
52 5 58 6 41 5 40 5	21	45 20 20 4f	20 30 53	54 20 55	45	53 50 41	57 20 54	4B 20 53	4C 2F 20 52 20 20	21 4F 4C	0133 0133 0135 0136 014B	439	CRMPSCI LKWSETERRADR: .ASCII	\$!/LKWSE	T ERROR	- PC	= !XL,	STATUS	WAS !X	L, SHOULI	BE !	XL\$	
21 2 52 2 20 4				53 40 52 40 20	20 58 44 58 30 2F	2C 21 41 21 20	40 40 40 40 40 40 40	58 45 49 20 44 58	21 20 42 20 09 2F 20 40	53 21 58	0157 0163 0168 0177	441	.ASCII	\$!/	INADR =	!XL -	!XL.	RETADR	= !XL	- !XL!/\$			
20 4		,,	21	20	2F	21	40	58	21 20	26 063	018F 0196	442	LKWSET	ERRSIZ=L	KUSETERF	RADR							
52 5 58 2	52	45	30 30	54 20	45	53 50	57	40	55 2F 20 52	21 4F	0196 0196 0196 0196 01A2	442 443 444	ULWSETERRADR: .ASCII	\$!/ULWSE	T ERROR	- PC	= !XL,	STATUS	WAS !X	L. SHOULD) BE !	XL\$	

MMGXQUOTA - TEST M V04-000 DATA STO	MMG SERVICES WITH LOW PGFLQUOTA DRAGE AND MESSAGE STRINGS	16-SEP-1984 02:05:45 VAX/VMS Macro V04-00 5-SEP-1984 01:58:27 [MMGTST.SRC]MMGXQUOTA.MAR;	Page 10 1 (4)
41 57 20 53 55 54 41 54 53 20 2C 4C 01A 4C 55 4F 48 53 20 2C 4C 58 21 20 53 01B 21 20 3D 20 52 44 41 4E 49 09 2F 21 01C 52 20 20 2C 4C 58 21 20 2D 20 4C 58 01D 25 20 4C 58 21 20 3D 20 52 44 41 54 45 01E 2F 21 4C 58 21 20 2D 01F	AE 3A 3A 3A 3A 3A 3A 3A 3A 3A 3A	INADR = !XL - !XL, RETADR = !XL - !XL!/\$	
52 52 45 20 47 45 52 54 4E 43 2F 21 01F 58 21 20 30 20 43 50 20 20 20 52 4F 020 41 57 20 53 55 54 41 54 53 20 2C 4C 021 4C 55 4F 48 53 20 2C 4C 58 21 20 53 021	447 ULWSETERRSIZ= 448 449 CNTREGERRADR: 450 .ASCII \$!/CNTR	EG ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL	\$
20 3D 20 54 4E 43 47 41 50 09 2F 21 023 20 4E 4F 49 47 45 52 20 2C 4C 55 21 023 45 43 41 50 53 20 42 55 21 50 20 3D 024	31 451 .ASCII \$!/	PAGENT = !UL, REGION = P!UB SPACE, \$	
4C 58 21 20 3D 20 52 44 41 54 45 52 025 2F 21 4C 58 21 20 2D 20 026	.ASCII \$RETADR	= !XL - !XL!/\$	
00000072 026	58 453 CNTREGERRSIZ=	CNTREGERRADR	
52 52 45 20 47 45 52 50 58 45 2F 21 026 58 21 20 3D 20 43 50 20 2D 20 52 4F 027 41 57 20 53 55 54 41 54 53 20 2C 4C 028 4C 55 4F 48 53 20 2C 4C 58 21 20 53 028	SB 455 EXPREGERRADR:	EG ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL	.\$
20 3D 20 54 4E 43 47 41 50 09 2F 21 02A 20 4E 4F 49 47 45 52 20 2C 4C 53 21 02A 45 43 41 50 53 20 42 55 21 50 20 3D 02B	ASCII \$!/ AF AF BB	PAGENT = !SL, REGION = P!UB SPACE, \$	
4C 58 21 20 3D 20 52 44 41 54 45 52 020	9 458 .ASCII \$RETADR	= !XL - !XL!/\$	
4C 58 21 20 3D 20 52 44 41 54 45 52 020 2F 21 4C 58 21 20 2D 20 02D 00000072 02D	D 459 EXPREGERRSIZ=	EXPREGERRADR	
02D 02D 52 45 20 20 4C 53 57 4A 44 41 2F 21 02D 21 20 3D 20 43 50 20 2D 20 52 4F 52 02E 57 20 53 55 54 41 54 53 20 2C 4C 58 02F 55 4F 48 53 20 2C 4C 58 21 20 53 41 030	D 460 D 461 ADJWSLERRADR: D 462 .ASCII \$!/ADJW	SL ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !X	L\$
20 3D 20 54 4E 43 47 41 50 09 2F 21 031 57 20 54 49 4D 49 4C 20 2C 4C 53 21 032 55 4F 48 53 20 2C 57 55 21 20 53 41 032	01 00 16 463 .ASCII \$!/	PAGENT = !SL, LIMIT WAS !UW, SHOULD BE !UW!/\$	
2F 21 57 55 21 20 45 42 20 44 4C 033 00000068 034	ADJUSTERRSIZ=	ADJWSLERRADR	
45 53 20 47 4E 49 4B 52 4F 57 2F 21 034 45 4B 43 4F 4C 2F 45 5A 49 53 20 54 035	ADJUSLERRSIZ= AGS	ING SET SIZE/LOCKED LIMITS: \$	
45 53 20 47 4E 49 48 52 4F 57 2F 21 034 45 48 43 4F 4C 2F 45 5A 49 53 20 54 035 20 20 3A 53 54 49 4D 49 4C 20 44 035 2F 4C 55 21 20 54 4C 55 41 46 45 44 036 4C 55 21 20 58 41 4D 20 2C 4C 55 21 037 55 21 20 4E 49 4D 20 2C 4C 55 21 2F 038 2F 21 4C 55 21 2F 4C 038	50 58 468 .ASCII \$DEFAULT 50 50	T !UL/!UL, MAX !UL/!UL, MIN !UL/!UL!/\$	

MP

```
MMGXQUOTA
V04-000
                                                                                                                                                                                                        11 (4)
                                          0000004E
                                                                                       WSETLMCTLSIZ=.-WSETLMCTLADR
                                                                          READERRADR:
                            41
4F
4C
         52
                  20
                                                                                        ASCII $!/ READ ERROR - LOCATION = !XL !/$
                                                                                       READERRSIZ=.-READERRADR
                                                                          NOREADERRADR:
.ASCII $!/ NO-READ ERROR - LOCATION = !XL !/$
                                          20 2F 21
4F 52 52
4E 4F 49
00000024
         44 43 20
                  45
40
58
                       52
20
21
             41
4F
4C
                                4F
20
3D
                                     4E
52
20
                                                                                       NOREADERRSIZ=.-NOREADERRADR
                                                                          WRITERRADR:
                                         20 2F 21
20 52 4F
30 20 4E
00000022
                       54
4F
4C
                            49
40
58
                                     57
20
20
                  45 43 20
                                                                                       .ASCII $!/ WRITE ERROR - LOCATION = !XL !/$
             20
41
21
                                52
20
21
                                                                                       WRITERRSIZ= -- WRITERRADR
                                                                          NOWRITERRADR:
                                          20 2F 21
52 52 45
4F 49 54
000000025
              49
40
58
         54
4F
4C
                  52
20
21
                       57
20
20
                            3D
2D
2D
                                                                                       .ASCII $! / NO-WRITE ERROR - LOCATION = !XL !/$
                                     4E
4F
4E
                                                                                       NOWRITERRSIZ= .- NOWRITERRADR
                                                                          MEMLOOPCTLADR: .ASCII
                                                                                                   $!/MEMORY LOOP ERRORS
                            52641C404C541C
                       451
421
421
431
431
431
                                                                                       .ASCII
                  25452854585
                                                                                                   $!/
                                                                                                                FILE BLOCK
                                                                                                                                        WAS !XL, SHOULD BE !XL$
              4CO9CO3CO
    40
58
41
25
42
58
20
58
20
58
53445349340
                                                                    490
                                                                                       .ASCII $!/
                                                                                                                MEMORY ADR
                                                                                                                                        WAS !XL, SHOULD BE !XL$
                                                                    491
                                                                                                                                        WAS !XL, SHOULD BE !XL$
                                                                                       .ASCII $!/
                                                                                                                PROCESS ID
                                                                    492
493
494
495
                                                                                       MEMLOOPCTLSIZ=.-MEMLOOPCTLADR
                                                                          RANGERRADR:
                                                                                                   $!/RETURN RANGE ERROR - LOCATION = !XL$
              20
                                         09 2F 21
20 4C 58
44 41 54
58 21 20
0000004F
                                     49 20 32 40
         3D
20
4C
                  52
40
21
                       58
20
                                                                    496
                            41
31
30
2F
                                4E
20
20
21
                                                                                                                INADR = !XL - !XL, RETADR = !XL - !XL!/$
                                                                    497
498
499
500
                                                                                       RANGERRSIZ=.-RANGERRADR
                                                                          IDMSGADR:
                  59
20
53
                       52
54
45
54
                                                   21 49 20
                                              2F
47
43
28
                                                                                        ASCII $!/MEMORY MANAGEMENT SERVICES TEST #7 (XQUOTA), PASS !UL!/$
         4D
45
20
20
              20
53
54
29
                            4F
4E
54
                                45
20
20
                                     45
40
53
51
                                          45
45
58
```

MMGXQL	101/ 00	A						- TE	ST MMG	G SERVICES WITH LOW PGFLQUOTA 16-SEP-1984 02:05:45 VAX/VMS Macro V04-00 Page AND MESSAGE STRINGS 5-SEP-1984 01:58:27 [MMGTST.SRC]MMGXQUOTA.MAR;1	ge 12 (4)
		2F	21	40	55	21	20	53 53 41 00000039	0510 0526 0526		
20 20 4E 20 53 55 20 52 2A 20	2A 4C 20 41 20	2A 4C 4E 4C 20	249 555 45	2A 57 52 43	200 200 41	20 54 45 52 50	203 4203 254 253 4	20 2F 21 45 54 20 20 57 4F 47 4E 49 20 41 56 2A 2A 2A 20 2F 21 00000043	0526 0532 053E 054A 0556 0566		***\$
20 20 4E 20 53 55 4C 42 20 20	2A 4C 20 47 20	2AC4203	2A 49 55 4D 4E	2A 57 52 54	2A 20 20 49	20 54 50 54 2A	20 54 20 34 24 34 24	20 2F 21 45 54 20 20 57 4F 47 4E 49 45 53 20	0569 0569 0569 0575 0581 0580 0599	ASCII \$!/\$ 506 RUN1_MSGSIZ=RUN1_MSGADR 507 508 RUN2_MSGADR: 509 .ASCII \$!/ ***** TEST WILL NOW BE RUN USING PERM GBL SECTIONS	****\$
						67	67	45 53 20 2A 2A 2A 20 2F 21 00000044	05AA 05AD 05AD	S10 .ASCII \$!/\$ 511 RUN2_MSGSIZ=RUN2_MSGADR	
20 20 4E 20 53 55 50 50 2A	2A 4C 20 41 2A	2A 4C 4E 4D 2A	2A 49 55 20 2A	2A 57 52 4E 2A	2A 20 20 46 20	20 54 45 50 20	20 53 42 20 20	20 2F 21 45 54 20 20 57 4F 47 4E 49	05AD 05AD 05B9 05C5 05D1 05DD	512 513 RUN3_MSGADR: 514 .ASCII \$!/ ***** TEST WILL NOW BE RUN USING PFN MAPPING *****\$	
6.11	611	FU	611	611	20	20	20	20 2F 21 0000003E	05E8 05EB	.ASCII \$!/\$ 516 RUN3_MSGSIZ=RUN3_MSGADR 517 518 PIDCTLADR: 519 .ASCII \$!UL\$	
								4C 55 21 00000003	05EB 05EB 05EE 05EE		
					54	53	54	47 40 40 00000006	05EE 05EE 05F4	522 GBLSECNAMADR: 523 .ASCII \$MMGTST\$ 524 GBLSECNAMSIZ=GBLSECNAMADR	
	54	41	44	2E	54	53	54	47 4D 4D 0000000A	05EE 05EE 05F4 05F4 05F4 05FE	PIDCTLSIZ=PIDCTLADR S21 S22 GBLSECNAMADR:	

MP V(STRING DESCRIPTORS

```
.ALIGN LONG
                                CRETVAERR:
0000000A ' 00000063
                                          .LONG
                                                  CRETVAERRSIZ, CRETVAERRADR
                                DELTVAERR:
0000006p 00000063
                                          LONG
                                                  DELTVAERRSIZ, DELTVAERRADR
                                CNTREGERR:
000001F9'00000072
                                         .LONG
                                                  CNTREGERRSIZ, CNTREGERRADR
                                CRMPSCERR:
00000000'00000063
                                          LONG
                                                  CRMPSCERRSIZ, CRMPSCERRADR
                                EXPREGERR:
00000268'00000072
                                          LONG
                                                  EXPREGERRSIZ, EXPREGERRADR
                                LKWSETERR:
00000133*00000063
                                          LONG
                                                  LKUSETERRSIZ, LKUSETERRADR
                                ULWSETERR:
00000196'00000063
                                          LONG
                                                  ULWSETERRSIZ, ULWSETERRADR
                                ADJWSLERR:
000002DD 00000068
                                         . LONG
                                                  ADJWSLERRSIZ, ADJWSLERRADR
                                WSETLMCTL:
00000345 0000004E
                                         . LONG
                                                  WSETLMCTLSIZ, WSETLMCTLADR
                                READERR:
00000393'00000021
                                         . LONG
                                                  READERRSIZ, READERRADR
                                NOREADERR:
000003B4 '00000024
                                         . LONG
                                                  NOREADERRSIZ, NOREADERRADR
                                WRITERR:
00000308'00000022
                                          .LONG
                                                  WRITERRSIZ, WRITERRADR
                            560
561
                                NOWRITERR:
000003FA'00000025
                                          LONG
                                                  NOWRITERRSIZ, NOWRITERRADR
                            563
                                MEMLOOPCTL:
                                         . LONG
0000041F '0000007F
                                                  MEMLOOPCTLSIZ, MEMLOOPCTLADR
                            564
565
                                RANGERR:
0000049E 0000004F
                                         .LONG
                                                  RANGERRSIZ, RANGERRADR
                            566
567
568
569
570
                                IDMSG:
000004ED'00000039
                                         . LONG
                                                  IDMSGS12, IDMSGADR
                                RUN1_MSG:
00000526'00000043
                                                  RUN1_MSGSIZ,RUN1_MSGADR
                                         .LONG
                                RUN2_MSG:
00000569'00000044
                                         . LONG
                                                  RUNZ_MSGSIZ,RUNZ_MSGADR
                                RUN3_MSG:
000005AD 10000003E
                                                  RUN3_MSGSIZ,RUN3_MSGADR
                                         .LONG
                                PIDCTL:
000005EB'00000003
                                          LONG
                                                 PIDCTLSIZ, PIDCTLADR
                                GBLSECNAM:
000005EE 00000006
                                          LONG
                                                 GBLSECNAMSIZ, GBLSECNAMADR
                                FILENAME:
000005F4 0000000A
                                         .LONG
                                                 FILENAMESIZ, FILENAMEADR
```

SAAABCC

CICCION

```
.SBTTL INITIALIZATION
:PROGRAM DESCRIPTION:
```

THIS PROGRAM TESTS THE FOLLOWING SYSTEM SERVICES: SCRETVA, SEXPREG

THE SYSTEM SERVICES ARE TESTED IN THE FOLLOWING MANNER. THE PROGRAM IS DESIGNED TO MAKE THREE RUNS. EACH RUN MAKES THREE PASSES. ON THE FIRST RUN WHEN A MAKEVA IS ENCOUNTERED IT IS REPLACED WITH A CRETVA. IT THEN MAKES THREE PASSES THROUGH THE PROGRAM DOING ALL THE POSSIBLE TESTS. ON THE SECOND RUN THE MAKEVA IS ENCOUNTERED AND IS REPLACED WITH A \$CRMPSC THAT MAPS A PERMANENT GLOBAL SECTION. FOR THE THIRD RUN, THE MAKVA IS REPLACED WITH A \$CRMPSC THAT MAPS A PFN GLOBAL SECTION. USING THIS APPROACH THE \$CRMPSC SYSTEM SERVICE WAS ALSO ABLE TO BE TESTED AS ALL ERROR PATHS FOLLOWED WHEN USING NORMAL VA ARE ALSO APPLICABLE WHEN USING GBL SECTION MAPPING. FOR EACH OF THESE RUNS A MESSAGE IS SENT TO THE TERMINAL INFORMING THE OPERATOR AS TO WHICH OF THESE SUBTITUTE MAKEVA'S WILL BE USED FOR THAT SET OF PASSES. BE USED FOR THAT SET OF PASSES.

REFER TO MASD\$: [MMGTST.COM]MMGTST.RAP FOR FURTHER INFORMATION REGARDING JUST HOW COMPLETELY THE ABOVE MENTIONED SYSTEM SERVICES ARE TESTED BY THIS PROGRAM.

THERE IS A BUG IN SCRMPSC THAT WILL BE FIXED IN THE FUTURE. UNTIL THIS FIX TAKES PLACE THERE AREA TEMPORARY PATCH'S LOCATED AT THE END OF THE CREMAPSEC MACRO AND MAKVA MACRO WHICH CIRCUMVENT THIS PROBLEM. UPON CORRECTION OF THIS BUG REFER TO THESE ABOVE MENTIONED MACROS TO FIND OUT HOW TO REMOVE THESE TEMPORARY PATCHES.

ALSO, THE FILE MMGTST.DAT, WHICH IS CREATED BY RUNNING MMGCRTFIL.MAR, IS NECESSARY TO RUN THIS PROGRAM AS IT IS REFERENCED BY CREMAPSEC.

*PRIVILEGES: IN ORDER TO RUN THIS PROGRAM YOU MUST HAVE IN YOUR POSSESION THE PRIVILEGES PRMGBL AND PENMAP.

START HERE

06B0

06B0

0680 06B0

06B0 0680 06B0

06B0 06B0 06B0

06B0

070B

0680 0680 0680 0680 0680 0000 START: . WORD SOPEN E9 RO, 10\$ OE 50 BLBC SCONNECT WARAB 06CB 06CE 09 50 E8 BLBS RO,20\$ SEXIT S RO 105: 06D7 06E6 06ED 0705 SRESUME S PID MOVZWL PID RO SFAO_S PIDCTL MSGLEN, PIDMSGD RO 205: 30 0000001C 'EF 0000002C'EF D4 CLRL WHICHRUN

:ENTRY MASK OPEN THE FILE "SOUTPUT" CONNECT THE RECORD ACCESS BLOCK EXIT WITH STATUS IN RO SET UP PROCESS ID :INIT THE PROCESS ID STRING :INIT THE RUN COUNT TO ZERO

S

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REPORT OF THE PROPERTY OF THE

MAIN PROGRAM:

THIS COUNTER IS USED TO DETERMINE WHICH CRMPSC IS TO BE REFERENCED, OR IF THE CRETVA IS TO BE USED, WHEN A MAKEVA

MMGXQUOTA V04-000				ĪN	TEST MMG SE				16-SEP-1984 02:05:45 5-SEP-1984 01:58:27	VAX/VMS Macro V04-00 Page 15 [MMGTST.SRC]MMGXQUOTA.MAR;1 (6)
					070B	39 :	12 ENCO	UNTERED.	*************	*******
	oc 002	0024 C'CF	'CF 0028'	D1 D	0 070B 6 0 070B 6 3 0710 6 0718 6	41 42 43 44 45 END:	MOVL	#1,W^PA W^MAXWH	SSCNT ICHRUN,W^WHICHRUN,PREST/	INITIALIZE THE PASS COUNT
			50	01 9	A 0718 6 0718 6 0718 6	45 END: 46 47 48	MOVZBL SEXIT_S	#\$\$\$_NO	RMAL,RO	
	03	01	0020	CF C	0724 6	49 PRESTAR	T: CASEL	M-MHICH	RUN,#1,#RUNMAX	
				000 002 004	2° 072C 6	50 51 L50: 52 53	. WORD . WORD . WORD	CRETVA GBL SET PFNMAP_	MESSAGE-L50 MESSAGE-L50 MESSAGE-L50	FOR EACH RUN PRINT MESSAGE DESCRIBING WHICH VA SPACE IS BEING USED.
			03	F 5 3 40 1	0730 6 0730 6	55 56 CRETVA_ 57 58 59	MESSAGE: SFAO_S BSBW BRB	RUN1 MS TYPERSG RSTART	G,MSGLEN,MSGBUFD BUF	
		0010	03		074C 6 8 074C 6 0751 6 0 0768 6 1 076B 6	58 59 60 61 GBL_SEC 63 64 65 66 67 PFNMAP_	_MESSAGE BISL \$FAO_S BSBW BRB	#CTL\$M RUN2 MS TYPEMSG RSTART	PIDMSG.W^CTLFLG G.MSGLEN,MSGBUFD BUF	;ALLOW PROCESS ID TO PRINT
		0010		04 0	076D 6 076D 6 8 076D 6 0772 6 0 0789 6	666 67 PFNMAP_ 668 669	MESSAGE:		PIDMSG,W^CTLFLG G,MSGLEN,MSGBUFD BUF	; ALLOW PROCESS ID TO PRINT
					078C 6	69 70 71 72 RSTART:	RANGECH	K ON		
		0010 0010	CF CF 03		8 078C A 0791 6 0796 6 0 0783 6	74 75 76 77	BICL SFAO_S BSBW EXPREG	BISL MCTLSM IDMSG. R TYPEMSG	#CTL\$M_RNGCHK,W^CTLFLG PIDMSG,@^CTLFLG SGLEN,MSGBUFD,PASSCNT BUF	STOP PROCESS ID FROM PRINTING
		51 52 0000	0008 0008	01 0 01 0 05 0 05 0 05 0 05 7	C 0786 0 0789 E 078C 4 07C1 0 07C3			MOVZWL MOVL	S^#SS\$_NORMAL,R3 #1,R4 W^RETRANGE,R1 R5 EXPREGSUBR NGE,R2 RANGE VEND	
		0014	°CF		0 07D0 6 07D5 6 1 07D5	78 79 80 81	MOVQ MOVQ MOVL DELTVA	CMPW	W^WHICHRUN.#RUN1	: IF USING MAPPED SECTIONS FOR TESTS : DELETE SECTION AND THEN DO A DELTY.
	00	000000	FEBE	00 D CF 7 00 D	0 07D0 6 07D5 6 1 07D5 5 07DA D 07DC F 07DE D 07E2 B 07E4 07EB C 07EB			BLEQ PUSHL PUSHAQ PUSHL CALLS	30000\$ WO WGBLSECNAM WO W3,G^SYS\$DGBLSC	PETELE SECTION AND THEN DO A DECIVA
			53	01 3	07EB	30000\$:		MOVZWL	S^#SS\$_NORMAL,R3	

MI P:

\$1

TI 78 TI 98 63

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MMGXQUOTA V04-000

- TEST MMG SERVICES WITH LOW PGFLQUOTA INITIALIZATION

16-SEP-1984 02:05:45 YAX/VMS Macro V04-00 5-SEP-1984 01:58:27 [MMGTST.SRC]MMGXQUOTA.MAR;1

Page 16 (6)

0000°CF 0008°CF 015F 50 51

MOVAL MOVAL BSBW

W^INRANGE,RO W^RETRANGE,R1 DELTVASUBR

```
- TEST MMG SERVICES WITH LOW PGFLQUOTA FORCE ERRORS IN CRETVA
                                                                                             16-SEP-1984 02:05:45
5-SEP-1984 01:58:27
                                                                                                                             VAX/VMS Macro V04-00
[MMGTST.SRC]MMGXQUOTA.MAR;1
                                                                                                                                                                               17 (7)
                                                                     .SBTTL FORCE ERRORS IN CRETVA
                                                           FORCE ERRORS FROM CRETVA
                                                                    THIS MAKEVA IS NOT AVAILABLE FOR THE SECOND RUN, WHEN PERM GLOBAL SECTIONS ARE USED, AS IN ORDER FOR THE EXPECTED ERROR TO BE RETURNED THE PAGES MUST BE CRF AND SINCE SHARED MEMORY TESTING IS POSSIBLE WITH THIS TEST (AND CRF IS NOT PERMITTED WITH SHARED MEMORY) THIS SECTION WAS BYPASSED FOR THAT REASON.
                                                   696
697
                    002C'CF
                                  B1
12
31
                                                                                W^WHICHRUN, #RUN2
                                                                     CMPW
             02
                                                                                10$
                           03
                                         0800
                                                   698
                                                                    BNEQ
                                                   699
700
                                         0802
                        00F2
                                                                    BRW
                                                                                REROUTE
                                         0805
                                                        105:
                                                   701
                                         080
                                         0805
                                                                    MAKEVA
                                                                                W^SAVEND, #1030-1, #SS$_EXQUOTA
                                                                                                                              : EXCEED PAGE FILE QUOTA
                                         0805
     03
             01
                    002C'CF
                                  CF
                                                                                CASEL WAWHICHRUN, #1, #RUNMAX
                                         080B
                                                         300015:
                                0006°
0029°
0073°
                                                                                .WORD 30003$-30001$
.WORD 30004$-30001$
.WORD 30005$-30001$
                                         080B
                                                                                                                                           : IF FIRST RUN USE CRETVA.
                                         080D
                                                                                                                                           : IF SECOND USE GBL CREMAPSEC
                                                                                                                                          ; IF THIRD USE PFN MAPPING
                                         080F
                                         0811
                                                         300038:
                    0014 CF
                                                                                            W^SAVEND, W^INRANGE
#1830-1, W^INRANGE+4
     0000°CF
                                         0811
                                                                                MOVL
                                  00
30
0004 CF
                                         0818
              3FFFFFFF 8F
                                                                                MOVL
                                                                                           #SS$ EXQUOTA, R3
W^INRANGE, R0
                                         0821
                                                                                MOVZWL
                                  DE
DE
30
31
                    0000°CF
                                         0824
                                                                                MOVAL
                    0008 CF
                                         0829
                                                                                            U^RETRANGE,R1
                                                                                MOVAL
                        0115
                                         082E
                                                                                BSBW
                                                                                            CRETVASUBR
                        0096
                                         0831
                                                                                BRW 30006$
                                                         30004$:
                                         0834
                                                                                            W^SAVEND, W^INRANGE
#1030-1, W^INRANGE+4
     0000°CF
                    0014 CF
                                  DO
                                         0834
                                                                                MOVL
             3FFFFFFF 8F
53 1C
                                  00
30
0004°CF
                                         083B
                                                                                MOVL
                                                                                           #SS$_EXQUOTA,R3
                                         0844
                                                                                MOVZWL
                                         0847
0847
0849
                                                         30007$:
                           00
                                   DD
                                                                                PUSHL
                                                                                            #25
                                   DD
                                                                                PUSHL
                                         084B
084F
0851
                    FES9 CF
                                   DF
                                                                                           W^FILENAME
                                                                                PUSHAL
                            00
                                   DD
                                                                                PUSHL
                                                                                            #0
                                   DF
                    FE4B
                                                                                PUSHAL
                                                                                            W^GBLSECNAM
              0000400D 8F
0008 CF
                                         0855
                                                                                            #<SEC$M_GBL!SEC$M_PERM!SEC$M_DZRO!SEC$M_WRT>
                                   DD
                                                                                PUSHL
                                         085B
085F
0863
                                  DF
                                                                                PUSHAL
                                                                                            W^RETRANGE
                    0000 CF
                                   DF
                                                                                PUSHAL
                                                                                            U^INRANGE
                                                                                            #8.LIB$ CREMAPSEC #2x1828A,RO
       00000000 EF
                                   FB
                                                                                CALLS
                                         086A
0871
0873
              0001828A 8F
                                   D1
13
                                                                                CMPL
                                                                                                                               : IF PREVIOUS GBL SECTION HASN'T
                                                                                BEQL
                                                                                            30007$
                                                                                                                               BEEN DELETED TRY CREMAPSEC AGAIN.
                    FDA1 CF
                                   DE 30
                                                                                            W^CRMPSCERR,R1
                                                                                MOVAL
                        0119
004C
                                                                                            CHECK1
                                                                                BSBW
                                         087B
                                                                                BRW 30006$
                                                         30005$:
                                                                                            W^SAVEND, W^INRANGE
#1@30-1, W^INRANGE+4
                                         087E
      0000°CF
                                   DO
                    0014 °CF
                                                                                MOVL
            3FFFFFFF 8F
                                   00
30
0004 CF
                                         0885
                                                                                MOVL
                                         088E
0891
                                                                                MOVZWL
                                                                                            #SS$_EXQUOTA,R3
                                                         30002$:
                                   7C
DD
                                         089
                                                                                            -(SP)
                           7E
00
                                                                                CLRQ
                                         0893
                                                                                PUSHL
                                                                                            #0
```

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MMGXQUOTA V04-000 RSTART

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V04-000

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R2 PRESERVED

SP

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			- TE	ST MMG	SERVICES WIT	H LOW PO	SFLQUOTA 16-SEP-1984 02:0 5-SEP-1984 01:5	5:45 VAX/VMS Macro VO4-00 Page 21 8:27 [MMGTST.SRC]MMGXQUOTA.MAR;1 (9
51	FC9D 53	_	DE	0982 0985 0986	781 ULWSETS 782 783 784 CHECK1: 785	SULWSET	T_S (RO) (R1) W^ULWSETERR,R1 RO,R3	; ERROR CONTROL STRING
53	0244	05	D1 13 B1 12 B1	0994 0997 0999 099E	786 787 788 789	BEQL CMPW BNEQ CMPW	10\$ #SS\$_VASFULL,R3 15\$	STATUS AS DESIRED BRANCH IF YES IF EXPECTING VIRTUAL ADDRESS SPACE THEN EXCEEDS QUOTA MAY ALSO BE RET
	53	10 48		09A0 09A3 09A5	790	BEQL	#SS\$_EXQUOTA,RO 10\$ #SS\$_NORMAL,R3	
50	0619	01 07 8F 3F	B1 12 B1 13	09A5 09A8 09AA 09AF 09B1 09B1	791 15\$: 792 793 794 795 796	BNEQ CMPW BEQL	#SSS_CREATED,RO	:IF EXPECTING NORMAL COMPLETION :FOR CRMPSC, THEN GLOBAL SECTION :CREATED MAY BE RETURNED
54	04	54 AE	DD	(1.414)	796 797 5\$: 798 799 800	PUSHL MOVL \$FAO_S	R4 4(SP),R4 (R1),MSGLEN,MSGBUFD,R4,RO INRANGE,INRANGE+4,RETRANG	;ADDRESS OF ERROR .
	0	10 150	BA 30 05	09B7 09EA 09EC 09EF	799 800 801 802 803	POPR BSBW RSB	#^M <r4> TYPEMSGBUF</r4>	
	00)7F	31	09F0 09F0 09F3 09F3	804 10\$: 805 806 807 : INPUT	BRW:	RANGECHK	GO CHECK THE RETURN RANGE
				09f3 09f3 09f3 09f3 09f3 09f3 09f3	806 807 INPUT 808 809 810 811 812 813	R3 = DE $R4 = P/$	TADR SIRED STATUS AGENT GION	
					814 ; OUTPU 815 ;	T: R2 PRES	SERVED	
				09F3	816 : 817 : 818 CNTREGS	UBR:		
51	FCOA	CF 14	DE 11	0A02 0A07	819 820 821	MOVAL BRB	S_S R4 (R1), R5 W^CNTREGERR,R1 CHECK2	; ERROR CONTROL STRING
				0A09	821 822 823 INPUT 824 825	•		
				09F3 09F3 09F3 09F3 0A07 0A09 0A09 0A09 0A09 0A09 0A09 0A09	825 826 827 828	R1 = RE R3 = DE R4 = P/ R5 = RE	TADR SIRED STATUS AGENT EGION	
				0A09 0A09	830 OUTPU			
				0A09	832	R2 PRES	SERVED	
51	FC04	CF	DE	0A09 0A09 0A18 0A1D	834 EXPREGS 835 836 837 CHECK2:	SEXPRE(S_S_R4_(R1)R5 W^EXPREGERR,R1	; ERROR CONTROL STRING

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MMGXQUOTA V04-000

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- TEST MMG SERVICES WITH LOW PGFLQUOTA SUBROUTINES TO CALL THE SERVICES
MMGXQUOTA
                                                                                                           16-SEP-1984 02:05:45
5-SEP-1984 01:58:27
                                                                                                                                           VAX/VMS Macro V04-00
[MMGTST.SRC]MMGXQUOTA.MAR;1
                                                                                                                                                                                              (9)
V04-000
                                  53
                                                                                              RO R3
                                                D1
13
DD
                                                                                                                                             :STATUS AS DESIRED?
                                                      SSAO
                                                                                  BEQL
                                                                 841
841
843
845
                                                                                  PUSHL
                                                                                              R6
                                                                                              4(SP),R6
(R1),MSGLEN,MSGBUFD,R6,R0,R3,R4,R5,-
RETRANGE,RETRANGE+4
                                    04
                                                DO
                             56
                                         AE
                                                                                  MOVL
                                                                                                                                              ADDRESS OF ERROR
                                                                                  SFAO_S
                                                                                              #*M<R6>
                                  0040 8F
                                                BA
305
05
07
78
C1
                                                                                  POPR
                                      00E5
                                                                                              TYPEMSGBUF
                                                                                  BSBW
                                                                 8467
8488
849
8551
8553
8555
8557
                                                                                  RSB
                                 0008°CF
                   0000°CF
                                                                      105:
                                                                                  MOVL
                                                                                              WARETRANGE, WAINRANGE
                                                                                                                                             :MAKE INPUT RANGE LOOK LIKE CRETVA/D
                                                      0A62
0A64
0A68
                                                                                  DECL
                                                                                              #9,R4,R4
R4,W^INRANGE,W^INRANGE+4
                                                                                  ASHL
                          GUOO'CF
           0004°CF
                                                                                  ADDL3
                                         00
                                                      0A70
                                                                                              RANGECHK
                                                                                  BRB
                                                                                                                                             :AND CHECK THE RETURN RANGE
                                                      0A72
                                                                      RANGECHK:
                                                E1
E9
70
                                                                                              #CTL$V_RNGCHK,W^CTLFLG,40$
R0,40$
W^INRANGE,R0
                                                                                                                                             BRANCH IF RANGE CHECK IS DISABLED

:IF ERROR IN SERVICE, SKIP THE RANGE

:RO = STARVA, R1 = ENDVA

:WHICH DIRECTION?
                                         03
50
                                                      0A72
                      73 0010°CF
                                    70
                                                      0A78
                                                                                  BLBC
                                                      0A7B
0A80
0A83
0A85
                                         CF
50
12
                                  0000
                          50
                                                                                  MOVQ
                                                D1
1A
1F
                                                                                  CMPL
                                                                                              RO,R1
                                                                 858
859
                                                                                                                                             BRANCH IF BACKWARDS
BRANCH IF FORWARDS
                                                                                              10$
                                                                                  BGTRU
                                                                                  BLSSU
                             OC 50
                                                EO
                                                      0A87
                                                                 860
                                                                                              #30,R0,10$
                                                                                  BBS
                                                                                                                                             FOR EQUAL, PO SPACE FORWARDS, P1 BA
                                                      OA8B
                                                                 861
862
863
864
865
866
867
                                                      OA8B
                                                                         REQUESTED RANGE IS FORWARDS
                                                      OA8B
                                                                      55:
                          50
51
                                 01FF 8F
01FF 8F
                                                      OA8B
                                                                                              #^X1FF,RO
                                                                                                                                              FROM BYTE O OF STARTVA
                                                                                  BICW
                                                A8
                                                      0A90
                                                                                  BISW
                                                                                              #^X1FF,R1
                                                                                                                                              THROUGH LAST BYTE OF ENDVA
                                                      0A95
                                                11
                                                                                              20$
                                                                                  BRB
                                                      0A97
                                                                868
869
870
                                                      0A97
                                                                         GOING BACKWARDS IN VIRTUAL ADDRESS SPACE
                                                      0497
                                        8F
50
                                                      0A97
                                                                      105:
                                                                                              #^X1FF,RO
#^X1FF,R1
                                 01FF
                                                                                  BISW
                                                                                                                                              LAST BYTE OF STARTVA
                                                                                                                                             THROUGH FIRST BYTE OF ENDVA
IS THIS WHAT WAS RETURNED?
BRANCH IF NOT, ERROR
THIS ONE OK TOO?
BRANCH IF YES, RANGE OK
                                                      0A9C
0AA1
0AA6
0AA8
                                 01FF
                                                                                  BICW
                          0008 CF
                                                01
                                                                      20$:
                                                                                              RO, WARETRANGE
                                                                                  CMPL
                                                                                  BNEQ
                                                                                              30$
                                                D1
13
                          000C 'CF
                                                                                  CMPL
                                                                                              R1.WARETRANGE+4
                                                      OAAF
                                                                                  BEQL
                                                                                              408
                                                                                                                                             SAVE REGISTER
TO USE FOR ERROR PC
FORMAT THE ERROR MESSAGE
                                                                      305:
                                                DD
                                                                                  PUSHL
                             53
                                    04 AE
                                                DO
                                                      OAB1
                                                                                              4(SP)_R3
                                                                                  MOVL
                                                      OAB5
                                                                                  SFAO_S
                                                                                              <W^RANGERR>, MSGLEN, MSGBUFD, R3,-
                                                      OAB5
                                                                                              INRANGE, INRANGE+4, RETRANGE, RETRANGE+4
                                                      OAES
OAES
                                                BA
30
05
                                                                                                                                             RESTORE SAVE REGISTER OUTPUT THE ERROR MESSAGE
                                                                 880
                                                                                  POPR
                                                                                              #^M<R3>
                                      0054
                                                                                  BSBW
                                                                                              TYPEMSGBUF
                                                                      405:
                                                                                  RSB
                                                                                                                                             AND RETURN
                                                      DAEC
                                                                         INPUT:
                                                                                  R3 = DESIRED STATUS
                                                                                  R4 = PAGCNT
                                                      OAE C
                                                                                  R5 = DESIRED LIMIT
                                                                                  R6 = ADDRESS TO RETURN NEW WORKING SET LIMIT
                                                                890
891
892
893
894
                                                      OAEC
OAEC
                                                                         OUTPUT:
                                                      DAEC
                                                                                  R2 PRESERVED
                                                      DAEC
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- TEST MMG SERVICES WITH LOW PGFLQUOTA MISCELLANEOUS SUBROUTINES
MMGXQUOTA
V04-000
                                                                                                                                             VAX/VMS Macro V04-00
[MMGTST.SRC]MMGXQUOTA.MAR:1
                                                       .SBTTL MISCELLANEOUS SUBROUTINES
                                                                          TYPE A MESSAGE
                                                                                    MSGBUF IS THE ADDRESS OF THE BEGINNING OF THE STRING MSGLEN CONTAINS THE SIZE (IN BYTES) OF THE STRING
                                                                  9201234567899933345678999339
                                                                        TYPEMSGBUF:
                     50 00E4°CF
51 0106°CF
08 0010°CF 02
51 00F8°CF
50 0E°
                                                 DO DE DE CO
                                                                                    MOVL
                                                                                                W^MSGLEN,RO
                                                                                                                                                :SIZE TO RO
                                                                                               W^MSGBUF,R1
WCTLSV PIDMSG,W^CTLFLG,5S
W^MSGBUFID,R1
                                                                                    MOVAL
                                                                                                                                                ADDRESS TO R1
                                                                                    BBC
                                                                                                                                                BRANCH IF NO PROCESS ID REQUIRED
                                                                                    MOVAL
                                                                                                                                                ADDRESS INCLUDING PID MSG
                                                                                                S^#<MSGBUF-MSGBUFID>,RO
                                                                                    ADDL
                                                                                                                                                INCLUDE EXTRA BYTES IN COUNT
                                          51
                                                 D0
B0
                                                                                               R1,W^RAB+RAB$L_RBF
R0,W^RAB+RAB$W_RSZ
W^RAB
                                                                                                                                               SET BUFFER ADDRESS
                                                                                    MOVL
                                                                                    MOVW
                                                                                    SPUT
                                                                                                                                                COUTPUT THE MESSAGE
                                     01 50
                                                                                                RO.208
                                                                                    BLBC
                                                                                    RSB
                                                                        205:
                                                                                    SEXIT_S RO
                                                                                                                                                :EXIT WOTH ERROR STATUS
                                                                          INPUTS:
                                                                                   O(SP) = ADDRESS OF ERROR
R1 = ADDRESS OF FORMAT CONTROL STRING
                                                                 OUTPUTS:
                                                                                    R2 PRESERVED
                                                                        PROBERR:
                                                                                   PUSHL
                                                                                               4(SP),R5
(R1),MSGLEN,MSGBUFD,R5
M^M<R5>
                             55
                                     04 AE
                                                 DO
                                                                                   MOVL
                                                                                   SFAO S
                                                 BA
30
05
                                                                                   POPR
                                                                                   BSBW
                                                                                                TYPEMSGBUF
                                                                                   RSB
                                                                          INPUT:
                                                                                   INRANGE CONTAINS INFINITE RANGE OF ADDRESSES PREVIOUSLY CREATED RETRANGE CONTAINS A RANGE OF ADDRESSES R10 CONTAINS ADDRESS TO STORE THE # OF PAGES SPANNED BY RETRANGE
                                                                          OUTPUT:
                                                                                   R10 UPDATED TO POINT AT NEXT LONG WORD
                                                                       MAXPAGLOCK:
                                                                                               STATUS=#SS$ LKWSETFUL, R3
MOVZWL #SS$ LKWSETFUL, R3
MOVAL W^INRANGE, R0
MOVAL W^RETRANGE, R1
BSBW LKWSETSUBR
                                                                                   LKWSET
                                                                                                                                               ; LOCK AS MANY AS ALLOWED
                          53
50
51
                                                 0000 °CF
                                                                                                WARETRANGE, WARETRANGE+4, RO
            50
                   000C ° CF
                                  8000
                                                                                    SUBL 3
                                                                                                                                                ; NUMBER OF BYTES IN RANGE
                                                                                                20$
                                                                                                                                                BRANCH IF NONE LOCKED
                                                                                    BEQL
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				- TE	ST MMG	SERVICE DUS SUBR	S WITH LOW PO OUTINES	SFLQUOTA	16-SEP-1984 02:05:45 5-SEP-1984 01:58:27	VAX/VMS Macro VO4-00 [MMGTST.SRC]MMGXQUOTA.MAR;	Page 25
50	8A ⁵⁰	50 ^{F7}	8F 01	78 C1	0888 0880 0801	970 971 972	ASHL ADDL3 RANGECH	#-9,R0,F	RO R10)+	:NUMBER OF PAGES -1 :STORE NUMBER OF PAGES	
	0010°	53 0008 0008	08 09 CF	CA 3C DE DE 30	0BC1 0BC1 0BC6 0BC6 0BC9 0BCE	973	ULWSET	BICL INADR=W' MOVZWL MOVAL	#CTL\$M_RNGCHK, W^CTLFLG ^RETRANGE \$^#SS\$_WASSET, R3 W^RETRÄNGE, R0	UNLOCK THE ONES THAT WER	E LOCKED
	0010	F	08 80		0803 0806 0806 0808	974 975	RANGE CH	MOVAL BSBW HK ON BISL	WARETRANGE, RT ULWSETSUBR WCTLSM_RNGCHK, WACTLFLG		
			8A	05 04 05	OBD C OBD E OBD F OBD F OBD F	976 20 977 978 979 980	S: CLRL RSB	(R10)+		NO PAGES LOCKED	
					OBDF	980	.END	START			

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MMGXQUOTA V04-000

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MMGXQUOTA Symbol table	- TEST MMG SE	RVICES WI	TH LOW PGFLQUOTA	16-SEP-1984 02:05:45 VAX/VMS 5-SEP-1984 01:58:27 CMMGTST.	Macro V04-00 Page 26 SRCJMMGXQUOTA.MAR;1 (10
Symbol table \$\$.TAB \$\$.TABEND \$\$.TMP \$\$.TMP1 \$\$.TMP2 \$\$.TMP2 \$\$.T1 \$\$.TMP2 \$\$.T1 \$\$.TMP2 \$\$.T1 \$\$.TMP2 \$\$.T1 \$\$.TMP2 \$\$.T1 \$\$.TMP2 \$\$.T1 \$\$.TMP2 \$\$.TMP3 \$\$.TMP2 \$\$.TMP3 \$\$.TMP2 \$\$.TMP3 \$\$.TMP2 \$\$.TMP3 \$\$.T	= 000000000000000000000000000000000000	020000000000000000000000000000000000000	FILENAME FILENAMEADR FILENAMESIZ GBLSECNAM GBLSECNAMADR GBLSECNAMSIZ GBLSECNAMSIZ GBLSECNAMSIZ GBLSECNAMSIZ GBLSECNAMSIZ GBLSECNAMSIZ IDMSGADR IDMSGADR IDMSGADR IDMSGSIZ INRANGE LSO LIB\$ CREMAPSEC LKWSETERR LKWSETERRADR LKWSETERRADR LKWSETERRADR MAIN PROGRAM MAXPAGLOCK MAXPASSCNT MAXWHICHRUN MEMLOOPCTLADR MEMLOOPCTLADR MEMLOOPCTLADR MEMLOOPCTLADR MEMLOOPCTLADR MEMLOOPCTLADR MOREADERRADR NOREADERRADR NOREADERRADR NOREADERRADR NOREADERRADR NOREADERRADR NOREADERRADR NOREADERRADR NOREADERRADR NOREADERRADR NOWRITERRADR NOWRI		SRCJMMGXQUOTA.MAR:1 (10 03 03 03 03 03 03 03 03 03 03 03 03 03

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MMGXQUOTA Symbol table	- TEST MMG SERV	ICES WI	TH LOW PGFLQUOTA	16-SEP-1984 02:05:45 VAX/VMS 5-SEP-1984 01:58:27 [MMGTST.	Macro V04-00 SRCJMMGXQUOTA.MAR; 1	Page 27
RABSL_ROP RABSW_RSZ RANGECHK RANGERR RANGERRADR RANGERRADR READERRADR READERRADR READERRASIZ REFOUTE RETRANGE RSTART RUN1_MSG RUN1_MSGADR RUN1_MSGADR RUN2_MSGADR RUN2_MSGADR RUN2_MSGADR RUN3_MSGADR RUN3_MSGSIZ RUN3_MSGADR RUN3_MSGSIZ RUN3_MSGADR RUN3_MSGSIZ RUN3_MSGADR RUN3_MSGADR RUN3_MSGADR RUN3_MSGADR RUN3_MSGADR RUN3_MSGADR RUN3_MSGADR RUN3_MSGADR RUN3_MSGADR RUN3_MSGSIZ RUNMAX SAVEND SEC\$M_DZRO SEC\$	= 0000004 = 000000472 R 00000670 R 0000049E R = 00000048 R 00000393 R = 00000008 R 0000078C R = 00000001 00000526 R = 000000043 = 000000548 R 00000569 R = 000000548 R = 000000548 R = 000000548 R = 000000548 R = 000000044 R 00000549 R = 000000014 R = 000000014 R = 000000014 R	03 03 03 03 03 03 03 03 03	ULWSETSUBR WHICHRUN WRITERRADR WRITERRSIZ WRKSETDEF WRKSETLIM WRKSETMAX WRKSETMAX WRKSETMAX WRKSETMIN WSETLMCTL WSETLMCTLADR WSETLMCTLSIZ	00000982 R 00000658 R 000003D8 R = 0000003C R 0000003C R 0000004C R = 00000044 R 00000640 R = 0000004E	03 02 03 03 02 02 02 03 03 03	
SS\$_VASFULL SS\$_WASSET START SYS\$ADJWSL SYS\$CNTREG SYS\$CNNECT SYS\$CRETVA SYS\$CRMPSC SYS\$DELTVA SYS\$DELTVA SYS\$DELTVA SYS\$PELTVA SYS\$PELTVA SYS\$EXPREG SYS\$EXPREG SYS\$EXPREG SYS\$FAO SYS\$LKWSET SYS\$PUT SYS\$PUT SYS\$PUT SYS\$RESUME SYS\$ULWSET TYPEMSGBUF ULWSETERRADR ULWSETERRADR ULWSETERRSIZ	= 00000194 = 0000001 = 00000009 00000680 R ********* GX ******** GX ********* GX **********	03333333333333333333333333333333333333				

MMGXQUOTA - TEST MMG SERVICES WITH LOW PGFLQUOTA VAX/VMS Macro V04-00 [MMGTST.SRC]MMGXQUOTA.MAR;1 Psect synopsis ******* Psect synopsis PSECT name Allocation PSECT No. Attributes SABS 00000000 CON CON 0.) LCL NOSHR NOEXE NORD NOSHR NOEXE NOSHR NOEXE NOSHR EXE 00000000 000001A6 WRT NOVEC BYTE WRT NOVEC PAGE NOWRT NOVEC PAGE NOPIC USR ABS LCL RD DATAO NOPIC USR REL LCL RD CODE 00000BDF CON LCL NOSHR **+-----**Performance indicators Phase CPU Time Page faults **Elapsed Time** -----00:00:00.06 18 89 370 00:00:01.31 Initialization 00:00:00.80 00:00:13.25 00:00:01.28 00:00:03.49 00:00:01.31 00:00:05.45 00:00:42.30 00:00:04.04 00:00:12.96 00:00:01.22 00:00:00.02 Command processing Pass 1 207 22 5 Symbol table sort Pass 2 00:00:00.17 Symbol table output 00:00:00.02 Psect synopsis output Cross-reference output 00:00:00.00 00:00:00.00 Assembler run totals 00:00:19.08 00:01:07.31 The working set limit was 1650 pages.
78987 bytes (155 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 931 non-local and 30 local symbols.
980 source lines were read in Pass 1, producing 23 object records in Pass 2.
63 pages of virtual memory were used to define 52 macros. A-------Macro library statistics ! Macro library name Macros defined \$255\$DUA28:[SYS.OBJ]LIB.MLB;1 \$255\$DUA28:[SYSLIB]STARLET.MLB;2 32 33 TOTALS (all libraries)

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1185 GETS were required to define 33 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:MMGXQUOTA/OBJ=OBJ\$:MMGXQUOTA MSRC\$:MMGXQUOTA/UPDATE=(ENH\$:MMGXQUOTA)+EXECML\$/LIB

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